

KENWOOD

ProTalk[®] DIGITAL

NX-240V16P/340U16P

Compact VHF/UHF Digital and Analog 5W Portable Radios

NXDN[®]



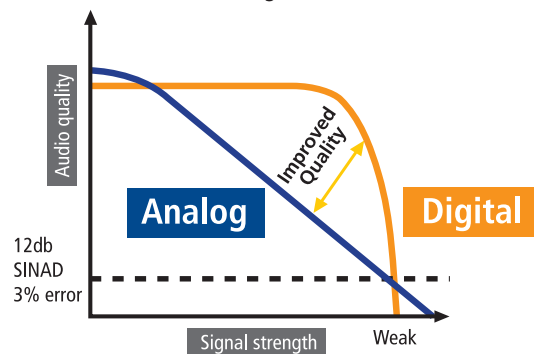
Kenwood's NX-240V16P/340U16P 16 channel 5 Watt portable radios operate in either analog FM or NXDN[®] digital modes, offering a cost-effective way to migrate smoothly from legacy systems while discovering the benefits of advanced digital technology – including increased effective coverage area, low noise for superior clarity, and inherent secured voice. All this comes in a tough, compact radio that is easy to operate, delivers high-powered audio, and ensures round-the-clock reliability.

SWITCHABLE DIGITAL AND ANALOG DUAL MODES

The NX-240V16P/340U16P is effectively two radios in one – analog and digital – operating on 12.5kHz in analog zones, and on 6.25kHz NXDN[®] in digital zones. For convenience, a PF key can be used to switch between zones.

SUPERIOR CLARITY IN EXTENDED COVERAGE

NX-240V16P/340U16P radios employ NXDN[®], an FDMA digital air interface with AMBE+2[™] voice coding technology, unique filtering and a 4-level FSK modulation technique with low bit error rate (BER) even at weak RF signal strengths. As RF signal strength weakens with distance, analog reception becomes increasingly noisy and intermittent. NXDN[®]'s low BER improves reception in fringe areas, thereby "effectively" increasing coverage as much as 20% over analog.



3 Year Warranty

ENHANCED AUDIO QUALITY

AMBE+2[™] VOCODER technology accurately replicates natural human speech nuances for superior voice quality, even at highway speeds. Additionally, the powerful 36mm-diameter speaker delivers up to 1 watt audio output, providing undeniably clearer and crisper audio.

FREQUENCY & QT/DQT/RAN

Users can program a ProTalk[®] to any of the pre-stored frequencies, QT/DQT analog codes, RAN digital codes, thus assuring compatibility with other brands. The ProTalk[®] digital VHF (NX-240V16P) 16-channel model has 27 pre-stored frequencies while the ProTalk[®] digital UHF (NX-340U16P) 16-channel model has 99. Both models have 39 QT tones and 168 DQT codes in analog mode and 64 RAN codes in digital mode.

For licensing information, please contact the FCC at <http://www.fcc.gov>

PROGRAMMABLE FUNCTION KEYS

Both PF Keys can be programmed for any of the many functions available, permitting customization to suit your specific requirements.

HIGH SECURITY

Confidentiality in radio communications is a Kenwood priority, and helping to maintain a high level of security in analog mode is a 16-code voice inversion scrambler, while robust NXDN[®] encryption is available with 32,767 selectable digital modes.

WIRELESS CLONING

This feature simplifies the setting up of multiple ProTalk[®] radios for identical functions, eliminating the need to customize individual radios. (Dealer function only)

5 WATT TRANSMIT POWER

| VHF/UHF | In Steel and/or concrete reinforced buildings | High-rise buildings |
|------------|---|---------------------|
| UHF 5 Watt | Up to 370,000 sq.ft. | Up to 33 floors |
| VHF 5 Watt | Up to 300,000 sq.ft. | Up to 18 floors |

*Talk range will vary based on terrain, conditions and type of radio

OTHER FEATURES

- Voice Annunciation
- Battery Save
- Channel Confirmation Mode
- B.C.L. (Busy Channel Lockout)
- Key Lock
- 4-color LEDs (blue, red, orange, green)
- Scan Del/Add
- KENWOOD ESN (Electronic Serial Number)
- Adjustable Microphone Gain (by FPU): High/Normal/Low
- Time-Out Timer
- Low Battery Warning

www.kenwoodusa.com/protalkinfo

Options

| | | | |
|---|--|---|---|
| <ul style="list-style-type: none"> KNB-29N Ni-MH Battery Pack (1,500mAh) KNB-45L 2,000mAh/7.4V Li-Ion Battery Pack KSC-35SK Fast Charger For the KNB-45L (3-Hour) KSC-43K Dual Chemistry Fast Charger For the KNB-29N/45L KVC-22 DC Vehicular Charger Adapter KRA-41 VHF Stubby Antenna KRA-42 UHF Stubby Antenna | <ul style="list-style-type: none"> KRA-26 VHF Helical Antenna KRA-27 UHF Whip Antenna KMC-45 Speaker Microphone KMC-21 Compact Speaker Microphone KEP-2 Earphone Kit for KMC-45 (2.5mm plug) KHS-7 Single Muff Headset | <ul style="list-style-type: none"> KHS-7A Single Muff Headset with In-line PTT KHS-8BL 2-wire Palm Mic with Earphone (Black) KHS-9BL 3-wire Lapel Mic with Earphone (Black) KHS-22 Behind-the-head Headset with PTT KHS-23 2-wire Palm Mic KHS-25 D-Ring Ear Hanger with PTT & Boom Mic | <ul style="list-style-type: none"> KHS-26 Earbud In-line PTT Headset KHS-27 D-Ring In-line PTT Headset KHS-31 C-Ring PTT Ear Hanger Headset KMB-28 Six Unit Charger Adapter for six KSC-35SK chargers (chargers not included) KBH-10 Belt Clip KLH-187 Nylon Case |
|---|--|---|---|

All accessories and options may not be available in all markets. Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

Main Specifications

| | NX-240V16P | NX-340U16P |
|---|---|------------------|
| GENERAL | | |
| Pre-set Frequencies | 27 (151-159 MHz) | 99 (451-470 MHz) |
| Number of Channels | 32 | |
| Zones | 2 | |
| Max. Channels per Zone | 16 | |
| Channel Spacing | Analog | 12.5 kHz |
| | Digital | 6.25 kHz |
| Operating Voltage | 7.5V DC ± 20% | |
| Battery Life (5-5-90 during hi-power battery saver: OFF/ON with KNB-45L (2000mAh)) | Approx. 10/12 hours | |
| Operating Temperature Range* | -22° F ~ +140° F (-30° C ~ +60° C) | |
| Frequency Stability | ± 2.0 ppm ± 1.0 ppm | |
| Antenna Impedance | 50 Ω | |
| Dimensions (W x H x D) with KNB-45L Projections Not Included | 2.13 x 4.8 x 1.39 in (54 x 122 x 35.3 mm) | |
| Weight (net) | Radio Only | 5.8 oz (165 g) |
| | with KNB-45L | 9.9 oz (281 g) |
| FCC ID | ALH443700 | ALH443800 |

*-14°F ~ +140°F (-10°C ~ +60°C) When KNB-29N/45L/69L is in use.

| | NX-240V16P | NX-340U16P |
|----------------------------|---|------------|
| RECEIVER | | |
| Sensitivity | Digital @ 6.25 kHz (3% BER) | 0.25 μV |
| | Analog (12 dB SINAD) | 0.25 μV |
| Selectivity | Analog @ 12.5 kHz | 60 dB |
| Intermodulation Distortion | Analog | 60 dB |
| Spurious Response | Analog | 70 dB |
| Audio Distortion | Less than 10% | |
| Audio Output | 1 W / 12 Ω (Internal Output) 500mW / 8 Ω (External Output) | |
| TRANSMITTER | | |
| RF Power Output | High / Low | 5 W / 1 W |
| Spurious Response | 70 dB | |
| FM Hum & Noise | Analog | 40 dB |
| Audio Distortion | Less than 10% | |
| Modulation | 11K0F3E, 4K00F1E, 4K00F1D, 4K00F7V, 4K00F2D | |

Analog measurements made per TIA/EIA 603 and specifications shown are typical. Specifications are subject to change without notice, due to advancements in technology.

ProTalk® is a registered trademark of JVCKENWOOD Corporation.
 AMBE+2™ is a trademark of Digital Voice Systems Inc.
 NXDN® is a registered trademark of JVCKENWOOD Corporation and Icom Inc.
 NEXEDGE® is a registered trademark of JVCKENWOOD Corporation.

ACCESSORIES INCLUDED

- KNB-45L Li-Ion Battery
- KSC-35SK 3-Hour Fast Charger
- KBH-10 Spring Action Belt Clip
- Removable Antenna
- Channel Stopper

Applicable MIL-STD & IP

| MIL Standard | MIL 810C Methods/Procedures | MIL 810D Methods/Procedures | MIL 810E Methods/Procedures | MIL 810F Methods/Procedures | MIL 810G Methods/Procedures |
|--|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Low Pressure | 500.1/Procedure I | 500.2/Procedure I, II | 500.3/Procedure I, II | 500.4/Procedure I, II | 500.5/Procedure I, II |
| High Temperature | 501.1/Procedure I, II | 501.2/Procedure I, II | 501.3/Procedure I, II | 501.4/Procedure I, II | 501.5/Procedure I, II |
| Low Temperature | 502.1/Procedure I | 502.2/Procedure I, II | 502.3/Procedure I, II | 502.4/Procedure I, II | 502.5/Procedure I, II |
| Temperature Shock | 503.1/Procedure I | 503.2/Procedure I | 503.3/Procedure I | 503.4/Procedure I, II | 503.5/Procedure I |
| Solar Radiation | 505.1/Procedure I | 505.2/Procedure I | 505.3/Procedure I | 505.4/Procedure I | 505.5/Procedure I |
| Rain | 506.1/Procedure I, II | 506.2/Procedure I, II | 506.3/Procedure I, II | 506.4/Procedure I, III | 506.5/Procedure I, III |
| Humidity | 507.1/Procedure I, II | 507.2/Procedure II, III | 507.3/Procedure II, III | 507.4 | 507.5/Procedure II |
| Salt Fog | 509.1/Procedure I | 509.2/Procedure I | 509.3/Procedure I | 509.4 | 509.5 |
| Dust | 510.1/Procedure I | 510.2/Procedure I | 510.3/Procedure I | 510.4/Procedure I, III | 510.5/Procedure I |
| Vibration | 514.2/Procedure VIII, X | 514.3/Procedure I | 514.4/Procedure I | 514.5/Procedure I | 514.6/Procedure I |
| Shock | 516.2/Procedure I, II, V | 516.3/Procedure I, IV | 516.4/Procedure I, IV | 516.5/Procedure I, IV | 516.6/Procedure I, IV |
| International Protection Standard | | | | | |
| Dust & Water Protection | IP54/55* | | | | |

*To meet MIL810 and IP grade, the 2-pin connector has to be connected.

KENWOOD

Kenwood U.S.A. Corporation
 Communications Sector Headquarters
 3970 Johns Creek Court, Suite 100, Suwanee, GA 30024-1265

Order Administration/Distribution
 P.O. BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745


www.kenwoodusa.com/protalkinfo

